

Technical Data Sheet

StoCryl V 200

Coating, matt



Characteristics

Area of application • as a rigid coating for the protection and coloured design of concrete

Properties

- prevents the ingress of water and harmful substances dissolved in water
- regulates the moisture balance
- increases electrical resistivity
- good penetration capacity
- very good adhesive bond
- good carbon dioxide impermeability (S_d value for $CO_2 > 50$ m)
- good water vapour diffusion capacity (S_d value for $H_2O < 4$ m)
- water-dilutable

Appearance • matt (G3) accordance with EN 1062-1

Information/notes

- product is in accordance with EN 1504-2
- not suitable for horizontal surfaces in contact with water
- not suitable for surfaces subject to foot and vehicle traffic
- not suitable for rooms that are used for purposes similar to living quarters

Technical data

Criterion	Standard / test specification	Value/ Unit	Notes
Density	EN ISO 2811	1,4 - 1,5 g/cm ³	
Diffusion-equivalent air layer thickness	EN ISO 7783	1,14 - 1,33 m	V2 medium
Water permeability rate w	EN 1062-1	< 0,05 kg/(m ² h ^{0,5})	
Water vapour diffusion-equivalent air layer thickness μ	EN ISO 7783	7.500 - 8.900	
Gloss	EN 1062-1	G3 - Matt	
Dry layer thickness	EN 1062-1	150 μ m	E3 > 100; $\leq$ 200
Grain size	EN 1062-1	< 100 μ m	S1 fine

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The characteristic values stated are average values or approximate values. Due to the natural raw materials in our products, the stated values can vary slightly in the same delivery batch; this does not affect the suitability of the product for its intended use.

Substrate

Requirements

Requirements on the substrate:
The substrate must be dry, load-bearing, and free from native and foreign release agents.
Remove less strong layers and laitance.

Dry in accordance with the definition of the DAfStb (German) Repair Guideline 2001-10, but depending on the compressive strength class. The moisture content may not exceed 4 CM per cent for concrete qualities up to C30/37 and max. 3 CM per cent for C35/45 concrete, measured with a calcium carbide meter.

Preparations

Prepare the substrate using a suitable mechanical process, such as abrasive blasting or high-pressure water blasting (> 800 bar).
Open pores and blow-holes sufficiently.

Application

Application temperature

Lowest application temperature: +8 °C
Highest application temperature: +30 °C

Material preparation

Ready-to-use, stir thoroughly before application.

Consumption

Type of application	Approx. consumption
as coating (2 layers)	0,3 - 0,4 l/m ²

Material consumption depends on the application, substrate, and consistency, among other factors. The stated consumption values are only to be used as a guide. If required, determine precise consumption values on the basis of the specific project.

Coating build-up

Coating build-up without fairing coat
1) Substrate preparation
2) Prime coating of StoCryl GW 100, StoCryl GW 200, StoCryl HP 100, or StoCryl GQ
3) Coating of StoCryl V 200 diluted with approx. 5 wt% water
4) Coating of StoCryl V 200 undiluted

Coating build-up with fairing coat
1) Substrate preparation
2) Fairing coat of StoCrete FM, StoCrete KM, StoCrete TF 200, or StoCrete TF

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 3) Coating of StoCryl V 200 diluted with approx. 5 wt% water
 4) Coating of StoCryl V 200 undiluted
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Application

Manually using a brush and roller, or by machine using the airless spray method

Coating build-up without fairing coat:

1) Substrate preparation

2) Prime coating

Prime with StoCryl GW 100, StoCryl GW 200, StoCryl HP 100, or StoCryl GQ.

For detailed information regarding the primers, please refer to the Primers/Fillers overview and the relevant Technical Data Sheet.

3) Coating of StoCryl V 200 diluted with approx. 5 wt% water

Thoroughly stir the StoCryl V 200 coating, dilute with max. 5 % water, then mix well once again.

Consumption of StoCryl V 200: approx. 0.15 - 0.2 l/m²

4) Coating of StoCryl V 200 undiluted

Stir the StoCryl V 200 coating thoroughly and apply undiluted.

Consumption of StoCryl V 200: approx. 0.15 - 0.2 l/m²

Coating build-up with fairing coat:

1) Substrate preparation

2) Fairing coat of StoCrete FM, StoCrete KM, StoCrete TF 200, or StoCrete TF 204

For detailed information regarding the fairing coat products, please refer to the relevant Technical Data Sheet.

3) Coating of StoCryl V 200 diluted with approx. 5 wt% water

Thoroughly stir the StoCryl V 200 coating, dilute with max. 5 % water, then mix well once again.

Consumption of StoCryl V 200: approx. 0.15 - 0.2 l/m²

4) Coating of StoCryl V 200 undiluted

Stir the StoCryl V 200 coating thoroughly and apply undiluted.

Consumption of StoCryl V 200: approx. 0.15 - 0.2 l/m²

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Specifications for machine application:

Airless:

Nozzle size: 0.017 - 0.021"

Nozzle size: 0.49 - 0.53 mm

Spray angle: 40° - 60°

Pressure: 150 - 200 bar

Addition of water: max. 5 %

Note: If delivered in large containers, no addition of water is required (ready-to-use).

Drying, curing, ready for next coat

Drying and waiting times:

Time until the area is no longer sensitive to rain and humidity:

At +8 °C: after 8 h

At +20 °C: after 6 h

At +30 °C: after 3 h

Until application of the next layer:

At +8 °C: after 24 h

At +20 °C: after 12 h

At +30 °C: after 5 h

Until bond strength is tested:

At +8 °C: after 7 days

At +20 °C: after 5 days

At +30 °C: after 3 days

Cleaning the tools

Clean with water after use.

Collect cleaning water/rinsing water and dispose of it professionally.

Remove bonded material by mechanical means.

Notes, recommendations, special information, miscellaneous

The declaration(s) of performance can be obtained from the StoCretec

Technisches InfoCenter

General application instructions are available at www.stocretec.de and in the notes of the latest Technical Manual.

Extender material breakdown:

When coated surfaces are exposed to mechanical stress, e.g. in corridors or access areas, it is possible that for darker, intense colour shades the areas of impact change to a lighter colour. This is due to the natural extenders used.

Even if the product quality and functionality are not affected by this, for aesthetic reasons we recommend using a coating with better binding qualities, e.g. StoCryl

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V 100, on these exposed surfaces.

Protective colloids/streaking:

If there is premature contact with water (condensation or rain) after application, water-soluble protective colloids may be released from the coating film and appear as glossy streaks on the coating surface. Because the processing aids remain water-soluble, subsequent contact with water (e.g. due to thawing, rain) washes them off as a matter of course.

This does not impair the quality of the dried coating.

Hiding power:

Depending on the selected colour shade, e.g. intense yellow or intense red, differences in hiding power can occur. An extra application cycle can therefore be useful, in addition to the application cycles listed in the "Coating build-up" section of the Technical Data Sheet.

The hiding power of the colour shades mentioned above can be increased by pre-coating the surface with a colour shade with better hiding power that is matched to the selected colour shade.

Delivery

Colour shade white, tintable in accordance with the StoColor System, RAL colour fan

When coated surfaces are exposed to mechanical impact it is possible that for darker, intense colour shades the areas of impact change to a lighter colour. This is due to the natural extenders used. This does not impair the quality and functionality of the product.

Tintable Decentralised tinting is possible in the Sto SalesCentres.

Packaging Pail

Article number	Name	Container
01725-001	StoCryl V 200 white	15 l pail
01725-011	StoCryl V 200 tinted	15 l pail

Storage

Storage conditions Store in dry and frost-free conditions. Protect from direct sunlight.

Storage life The product quality is best guaranteed in its unopened original container until its shelf life has expired. The first digit of the batch number is the final digit of the year. The second and third digits indicate the calendar week. Example: 1450013223 - shelf life until end of calendar week 45 in 2021.

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Identification

Product group Coating

GISCODE BSW50

Safety

This product is subject to compulsory labelling in accordance with the current EU regulation.

Observe the Safety Data Sheet!

Safety instructions refer to the ready-to-use, unapplied product.

May cause an allergic skin reaction. Avoid breathing vapours. Wear protective gloves. If skin irritation or rash occurs: Get medical advice/ attention. Take off contaminated clothing and wash it before reuse. Contents/container to be disposed of through approved disposal contractor or taken to municipal collection point.

EUH211

Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

Special notes

The information in this Technical Data Sheet serves to ensure the product's intended use, or its suitability for use, and is based on our findings and experience. Users are nevertheless responsible for establishing the product's suitability and use.

Applications not specifically mentioned in this Technical Data Sheet are permissible only after prior consultation. Where no approval is given, such applications are at the user's own risk. This applies in particular when the product is used in combination with other products.

When a new Technical Data Sheet is published, all previous Technical Data Sheets are no longer valid. The latest version is available on the Internet.

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